

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-16. (Canceled)

17. (Currently Amended) The sliding material of claim ~~10-21~~ wherein said ~~polytetrafluoroethylene~~ polytetrafluoroethylene resin is present in an amount of at least 70 vol.%, and

said bismuth particles or bismuth alloy particles are present in an amount of 10-30 vol.% and are of particle size of about 1 to about 50 μ m.

18. (Canceled)

19. (Currently Amended) The sliding material of claim ~~12-22~~ wherein said ~~polytetrafluoroethylene~~ polytetrafluoroethylene resin is present in an amount of at least 70 vol.%, and

said bismuth particles or bismuth alloy particles are present in an amount of 10-30 vol.% and are of particle size of about 1 to about 50 μ m.

20. (Currently Amended) The sliding material of claim ~~13-23~~ wherein said

polytetrafluoroethylenepolytetrafluoroethylene resin is present in an amount of at least 70 vol.%, and

said bismuth particles or bismuth alloy particles are present in an amount of 10-30 vol.% and are of particle size of about 1 to about 50 μm .

21. (New) A sliding material which comprises:
- a. not less than 50 vol.% of
polytetrafluoroethylene resin;
 - b. 3-40 vol.% of at least one member selected
from the group consisting of bismuth
particles and bismuth alloy particles, and
 - c. 0.5-10 vol.% of a solid lubricant, wherein
the solid lubricant is selected from the
group consisting of at least one of graphite,
 MoS_2 , WS_2 and BN;
 - d. the sum total being 100 vol. %;
said sliding material being substantially
free of lead.
22. (New) A sliding material which comprises:
- a. not less than 50 vol.% of
polytetrafluoroethylene resin;

- b. 3-40 vol. % of at least one member selected from the group consisting of bismuth particles and bismuth alloy particles;
- c. 2-20 vol. % of injection moldable fluororesin selected from the group consisting of tetrafluoroethylene-perfluoroalkyl vinyl ether copolymer, tetrafluoroethylene-hexafluoropropylene copolymer and polyvinylidene fluoride;
- d. 0.5-10 vol.% of a solid lubricant selected from the group consisting of at least one of graphite, MoS₂, WS₂ and BN;
- e. the sum total being 100 vol.%;
- f. said sliding material being substantially free of lead.

23. (New) A sliding material comprising:

- a. not less than 50 vol.% of polytetrafluoroethylene resin;
- b. 3-40 vol.% of at least one member selected from the group consisting of bismuth particles and bismuth alloy particles;
- c. 2-20 vol.% of injection moldable fluororesin selected from the group consisting of

tetrafluoroethylene-perfluoroalkyl vinyl
ether copolymer, tetrafluoroethylene-
hexafluoropropylene copolymer, and
polyvinylidene fluoride;

d. 0.5-10 vol.% of hard particles selected from
the group consisting of at least one of W,
Ti, Cr, Al_2O_3 , Fe_3O_4 , CrO_2 , SiC and TiO_2 , and
said hard particles have an average particle
size not more than 10 microns; and

e. 0.5-10 vol.% of a solid lubricant selected
from the group consisting of at least one of
graphite, MoS_2 , WS_2 and BN;

f. the sum total being 100 vol.%, and said
sliding material being substantially free of
lead